SIRT7 Polyclonal antibody

Catalog Number: 12994-1-AP

**Basic Information**

- **Catalog Number:** 12994-1-AP
- **Size:** 150μl, Concentration: 500μg/ml by Nanodrop
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG3656
- **GenBank Accession Number:** BC017305
- **GeneID (NCBI):** 51547
- **Full Name:** sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae)
- **Calculated MW:** 400 aa, 45 kDa
- **Observed MW:** 45 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:** WB 1:1000-1:4000, IP 0.5-4.0 μg for IP and 1:500-1:2000 for WB

**Applications**

- **Tested Applications:** IP, WB, ELISA
- **Cited Applications:** IF, IHC, IP, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse

**Background Information**

SIRT7 (NAD-dependent deacetylase sirtuin-7), also known as SIR2L7, is a member of the class IV sirtuin family and is localized to the nucleolus. Expressed throughout the body, SIRT7 associates with rDNA genes where it interacts with histones and acts as a positive regulator of RNA polymerase I (Pol I). SIRT7 is a probable NAD-dependent deacetylase whose expression is upregulated in thyroid carcinoma cells. Overexpression of SIRT7 increases Pol I-mediated transcription, thereby speeding cell growth and contributing to the development of cancer.

**Notable Publications**

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<th>Author</th>
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<tr>
<td>Xiaodan Sun</td>
<td>31572653</td>
<td>Front Genet</td>
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<td>Min Liu</td>
<td>28871079</td>
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<td>Kalaiselvi Sivalingam</td>
<td>34716387</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

*** 20μl sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
PC-3 cells were subjected to SDS PAGE followed by western blot with 12994-1-AP (SIRT7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

IP result of anti-SIRT7 (IP:12994-1-AP, 4ug; Detection:12994-1-AP 1:1000) with PC-3 cells lysate 960 ug.